PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

TROSINO, James 268 Bush Street, No. 3434 San Francisco, CA 94104 UNITED STATES OF AMERICA

RECEIVED

JUN 1 4 2005

MIDACIN DIRECT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

| JAMES INCOME | Date of malling (day/month/year) 08/06/2005 |
|---------------------------------------|---|
| Applicant's or agent's file reference | |
| EFIM0374P | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. | International filing date |
| PCT/US2005/006876 | $\frac{(day/month/year)}{04/03/2005}$ |
| Applicant | |
| ELECTRONICS FOR IMAGING, INC. | |

| 1. X | The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. | | |
|--------|--|--|--|
| | Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): | | |
| | When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. | | |
| | Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35 | | |
| | For more detailed instructions, see the notes on the accompanying sheet. | | |
| 2. | The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. | | |
| з. 🔲 | With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: | | |
| | the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. | | |
| | no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. | | |
| 4. Ren | ninders | | |
| | rtly after the expiration of 18 months from the priority date, the international application will be published by the | | |

International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching AuthorIty

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Ainhoa Barrio Baranano

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

 4. [Where various kinds of amendments are made]:
- "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 15 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international proliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | ac well | see Form PCT/ISA/220 as, where applicable, item 5 below. |
|---|---|-----------------------------|---|
| EFIMO374P | ACTION International filing date (day/montif | | (Earliest) Priority Date (day/month/year) |
| International application No. | international filing date (day/month | year) | (Earliest) Priority Date (day/month/year) |
| PCT/US2005/006876 | 04/03/2005 | | 24/03/2004 |
| Applicant | · | | |
| ELECTRONICS FOR IMAGING, INC. | | | |
| This International Search Report has bee according to Article 18. A copy is being to | | | ority and is transmitted to the applicant |
| This International Search Report consists | of a total ofshe | ets. | |
| X It is also accompanied by | a copy of each prior art document c | ted in this | report. |
| Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | | | |
| The international this Authority (Ru | | of a transk | ation of the international application furnished to |
| b. With regard to any nucle | otide and/or amino acid sequence | disclosed | In the international application, see Box No. I. |
| 2. Certain claims were fou | and unsearchable (See Box II). | | |
| 3. Unity of invention is lacking (see Box III). | | | |
| 4. With regard to the title, | | | |
| X the text is approved as s | ubmitted by the applicant. | | |
| the text has been establi | shed by this Authority to read as folk | ws: | |
| { | | | |
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| 1 | | | |
| 5. With regard to the abstract, | | | |
| | submitted by the applicant. | | |
| X the text has been estable may, within one month for | shed, according to Rule 38.2(b), by com the date of mailing of this interna | his Authori itional sear | ity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority. |
| 6. With regard to the drawings , | | | |
| a. the figure of the drawings to be | published with the abstract is Figure | No1_ | |
| as suggested by | the applicant. | | |
| · | his Authority, because the applicant | | |
| | his Authority, because this figure bet | er charact | erizes the invention. |
| b none of the figures is to | be published with the abstract. | | |

International application No.

INTERNATIONAL SEARCH REPORT

PCT/US2005/006876

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

| Systems, apparatus and methods are described for providing information access to network devices (30,32). A directory server (20) registers identification information about a first network device coupled to a first network (14). The first network and the directory server may be coupled to a second network (22), which may include a wide area network, public network, or the Internet. The identification information may include a network address of the first network device on the first network, or a network address of the first network on the second network. The directory server may receive and process requests for identification information about registered network devices, and may selectively reply to the requests based on status information of the first network device. |
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INTERNATIONAL SEARCH REPORT

International Application No PCT/US2005/006876

| A. CLASSIF IPC 7 | FICATION OF SUBJECT MATTER H04L29/08 H04L29/12 | | |
|---|---|--|-----------------------|
| According to International Patent Classification (IPC) or to both national classification and IPC | | | |
| | SEARCHED | | |
| Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04L | | | |
| Documentati | ion searched other than minimum documentation to the extent that su | ch documents are included in the fields se | parched |
| Electronic da | ata base consulted during the international search (name of data base | and, where practical, search terms used |) |
| EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC | | | |
| | ENTS CONSIDERED TO BE RELEVANT | | |
| Category ° | Citation of document, with indication, where appropriate, of the refe | vant passages | Relevant to claim No. |
| X | ZHU F ET AL: "Classification of Discovery in Pervasive Computing Environments" NONE, 2002, XP002328060 page 1 - page 4 page 8 - page 12 | Service | 1–26 |
| X | GUTTMAN E ET AL: "Service Location 1-26 Protocol, Version 2" IETF RFC, June 1999 (1999-06), XP002191158 page 5 - page 10 page 17, paragraph 8 page 26 | | 1-26 |
| X Furt | her documents are listed in the continuation of box C. | Patent family members are listed | in annex. |
| ° Special ca | ategories of cited documents: | | |
| "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | | | |
| *E* earlier document but published on or after the international filling date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another *E* earlier document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention | | | |
| citation or other special reason (as specified) Cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled | | | |
| later t | | in the art. *&* document member of the same paten | |
| | e actual completion of the international search | Date of mailing of the international se $08/06/2005$ | arcn report |
| _ | 31 May 2005 | | |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Authorized officer | | | |
| Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Riegler, J | | | |

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INTERNATIONAL SEARCH REPORT

international Application No
PCT/US2005/006876

| C.(Continua | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | 1017 0320037 000070 |
|-------------|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | BETTSTETTER C ET AL: "A comparison of service discovery protocols and implementation of the service location protocol" EUNICE - OPEN EUROPEAN SUMMER SCHOOL, 13 September 2000 (2000-09-13), pages 1-8, XP002279616 the whole document | |
| A | WEIBIN ZHAO HENNING SCHULZRINNE COLUMBIA UNIVERSITY CHATSCHIK BISDIKIAN WILLIAM JEROME IBM: "The SLP Service and Remote Discovery in SLP" IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, no. 3, 25 March 2002 (2002-03-25), XP015005910 ISSN: 0000-0004 page 2, paragraph 1. page 4, paragraph 5 page 5 | 7-10, 20-23 |
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PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2005/006876 04.03.2005 24.03.2004 International Patent Classification (IPC) or both national classification and IPC H04L29/08, H04L29/12 Applicant ELECTRONICS FOR IMAGING, INC. This opinion contains indications relating to the following items: 1. ☑ Box No. I Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Riegler, J

Telephone No. +49 89 2399-6978



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/006876

| | Вох | No | . I Basis of the opinion | | |
|----|------------------------|-------------|---|--|--|
| 1. | | | gard to the language , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item. | | |
| | | lan | s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)). | | |
| 2. | With nec | n re ess | gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of: | | |
| | a. ty | уре | of material: | | |
| | [| | a sequence listing | | |
| | [| | table(s) related to the sequence listing | | |
| | b. format of material: | | | | |
| | [| | in written format | | |
| | [| | in computer readable form | | |
| | c. ti | me | of filing/furnishing: | | |
| | [| | contained in the international application as filed. | | |
| | ĺ | | filed together with the international application in computer readable form. | | |
| | 1 | | furnished subsequently to this Authority for the purposes of search. | | |
| 3. | | ha co | addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished. | | |
| 4. | Add | ditio | nal comments: | | |

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 4, 6, 8-13, 17, 19, 21-26

No: Claims 1-3, 5, 7, 14-16, 18, 20

Inventive step (IS) Yes: Claims

No: Claims 1-26

Industrial applicability (IA) Yes: Claims 1-26

No: Claims

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Cited documents

Reference is made to the following documents:

- D1: ZHU F ET AL: "Classification of Service Discovery in Pervasive Computing Environments" NONE, 2002, XP002328060
- D2: GUTTMAN E ET AL: "Service Location Protocol, Version 2" IETF RFC, June 1999 (1999-06), XP002191158

2 Novelty and Inventive Step

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document **D1** discloses (the references in parentheses applying to this document):

A network device coupled to a first network and to a directory server (cf. "heterogeneous and ubiquitous computing devices and services", abstract) the network device comprising:

- information identifying the network device on the first network ("A service has a name, a list of attributes and user privileges", bottom of p. 2, From the Service's Point of View); and
- a registration processor adapted to provide the identifying information to register
 the network device on the directory server (cf. "A service announces its
 information to clients or directories.", bottom of p. 2, , From the Service's Point
 of View; and "128-bit numbers" or "service template", bottom of p. 3, Service
 Naming).

The features of the network device being coupled to a first network and comprising a processor are considered to be implicitly disclosed in D1 as cited above, as the

service device is adapted to announce its information via a network and any computing device can be considered to include a processor for performing registration.

- 2.2 Claim 14 corresponds to the features of claim 1 in terms of a network device querying the directory server. D1 discloses all the features of claim 14 (cf. abstract; middle of p. 2, From the Client's Point of View; and top of p. 3, From the Directory's Point of view).
 - Again the features the device comprising information identifying itself and a processor is considered to be implicitly disclosed, because the directory authenticates the device (cf. top of p. 3, From the Directory's Point of view) and any computing device can be considered to include a processor for performing information queries.
- 2.3 For the sake of completeness it is also pointed out, that the subject matter of independent claims 1 and 2 is also not new over the disclosure of document D2 (cf. p. 5-6; 9; chapter 8, p.17-26).
- 2.4 Moreover, it should be noted that even if novelty of claim 1 or 14 could be argued, based on minor differences between the features of this claim and those disclosed in D1 or D2 (e.g. the features stated to be implicitly disclosed acc. to items 2.1 and 2.2), the subject-matter of claim 1 would not involve an inventive step, because including those features to the device disclosed in D1 or D2 is considered a common measure of the skilled person in the art, Article 33(3) PCT, having regard to the disclosure of D1 or D2.
- 2.5 The additional features of the dependent claims do not add anything new or inventive to the independent claims, because these features are known from the above mentioned prior art (i.e. the network device comprising PDA, printer, etc, comprising a network interface, the network (i.e. Internet) consisting of multiple interconnected networks, identifying information is an address) or common measures (i.e. network comprising a firewall).

Re Item VII

Certain defects in the international application

- The claims have not been casted in the two-part form recommended by Rule 6.3 (b) PCT having a pre-characterising portion which correctly reflects the prior art of the cited document D1 or D2.
- The claims do not include reference signs relating to the technical features referred to therein, Rule 6.2 (b) PCT.
- 3 The opening part of the description does not acknowledge the background art of the invention Rule 5.1 (a) (ii)
- The vague and imprecise statement "various modifications can be made ... without departing from the scope and spirit of this invention" in the description on page 25 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity of the claims (Article 6 PCT) when used to interpret them.

Re Item VIII

Certain observations on the international application

The application does not meet the requirements of Article 6 PCT.

- Claim 6 seeks to define the invention by specifying its relation to a second entity (i.e. the first network) which is not part of the claimed entity (i.e. the network device.
 - The same objection also applies to claims 7, 8, 10, 19, 20, 21, 23.
- The expression "the network device is located inside the firewall" used in claims 9 and 22 is unclear, because it is not clear how one network device can be located within another network device.
 - The same objection also applies to the expression "... directory server is located outside the firewall" used in claims 10 and 23.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2005/006876

The expressions can only be interpreted as "the network device and the firewall are equivalent" (claims 9 and 22) and "the directory server and firewall are different devices" (claims 10 and 23).